



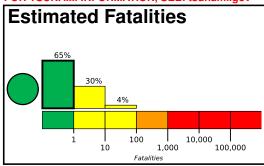


PAGER

Version 4

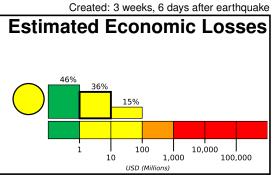
M 6.6, 9km NE of Columbio, PhilippinesOrigin Time: 2019-10-29 01:04:43 UTC (Tue 09:04:43 local) Location: 6.7587° N 124.9952° E Depth: 14.9 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of Philippines. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	4,942k*	10,869k	5,363k	2,452k	659k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

5000 23.6°W 126.9°W umaguete Ш 8.8°N Cagayan de Oro 5.2°N

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us6000645n#pager

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are reinforced concrete and unknown/miscellaneous types construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1987-05-23	150	5.7	VII(70k)	1
1990-02-08	336	6.7	VIII(96k)	1
2002-03-05	119	7.5	VIII(12k)	15

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org Population MMI City VII Digal VII 28k Buluan VII Bual VII Columbio 6k VII Damawato 2k VII Datu Paglas 4k ٧ Davao 1,213k V Cotabato 179k IV Cagayan de Oro 445k

Pagadian bold cities appear on map.

Butuan

I۷

IV

187k (k = x1000)

310k

Event ID: us6000645n